

Refine Search

Search Results -

Terms	Documents
L15 and cinnam\$7	3

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L16

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, November 17, 2004 [Printable Copy](#) [Create Case](#)

Set Name **Query**
 side by side

Hit Count **Set Name**
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L16</u>	L15 and cinnam\$7	3	<u>L16</u>
<u>L15</u>	L14 and polyaniline	22	<u>L15</u>
<u>L14</u>	ester.ti.	136332	<u>L14</u>
<u>L13</u>	L12 and polyaniline	0	<u>L13</u>
<u>L12</u>	carboxylic ester.ti.	1223	<u>L12</u>
<u>L11</u>	L10 and polyaniline	0	<u>L11</u>
<u>L10</u>	unsaturated carboxylic ester.ti.	104	<u>L10</u>
<u>L9</u>	L8 and 560/\$	5	<u>L9</u>
<u>L8</u>	L7 and catalyst	61	<u>L8</u>
<u>L7</u>	L6 and cinnam\$5 and alcohol and catalyst	61	<u>L7</u>
<u>L6</u>	polyaniline	8546	<u>L6</u>
<u>L5</u>	L4 and 560/\$	5	<u>L5</u>
<u>L4</u>	L3 and poly	71	<u>L4</u>
<u>L3</u>	L2 and aniline	169	<u>L3</u>

<u>L2</u>	L1 and cinnamate
<u>L1</u>	cinnamic acid and alcohol and catalyst

1055	<u>L2</u>
6300	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 10 of 22 returned.

☐ 1. Document ID: US 20040092763 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 22

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040092763

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040092763 A1

TITLE: PROCESS FOR THE TRANSESTERIFICATION OF KETO ESTER WITH ALCOHOL USING POLYANILINE SALTS AS CATALYST

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Palaniappan, Srinivasan	Hyderabad		IN	
Chandrashekhar, Rampally	Hyderabad		IN	

US-CL-CURRENT: 560/51; 560/174

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20030164115 A1

L15: Entry 2 of 22

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030164115

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030164115 A1

TITLE: Solution of cellulose acylate dissolved in mixed solvent comprising ketone and ester

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mukunoki, Yasuo	Kanagawa		JP	
Yamada, Tsukasa	Kanagawa		JP	

US-CL-CURRENT: 106/170.47

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6743942 B1

L15: Entry 3 of 22

File: USPT

Jun 1, 2004

US-PAT-NO: 6743942

DOCUMENT-IDENTIFIER: US 6743942 B1

TITLE: Process for the transesterification of keto ester with alcohol using polyaniline salts as catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☒ 4. Document ID: US 6350896 B1

L15: Entry 4 of 22

File: USPT

Feb 26, 2002

US-PAT-NO: 6350896

DOCUMENT-IDENTIFIER: US 6350896 B1

TITLE: Process for preparation of an ester using a polyaniline salt as catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 5319060 A

L15: Entry 5 of 22

File: USPT

Jun 7, 1994

US-PAT-NO: 5319060

DOCUMENT-IDENTIFIER: US 5319060 A

TITLE: Preparation of unsaturated epoxy ester resin and carboxylated unsaturated epoxy ester resin and photosensitive composition comprising the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 5281678 A

L15: Entry 6 of 22

File: USPT

Jan 25, 1994

US-PAT-NO: 5281678

DOCUMENT-IDENTIFIER: US 5281678 A

TITLE: Preparation of unsaturated epoxy ester resin and carboxylated unsaturated epoxy ester resin and photosensitive composition comprising the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 4980416 A

L15: Entry 7 of 22

File: USPT

Dec 25, 1990

US-PAT-NO: 4980416

DOCUMENT-IDENTIFIER: US 4980416 A

TITLE: Composition of unsaturated ester, polymerizable crosslinking agent and (meth)acryloyl group-containing butadiene-acrylonitrile copolymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: WO 2079138 A1

L15: Entry 8 of 22

File: EPAB

Oct 10, 2002

PUB-NO: WO002079138A1

DOCUMENT-IDENTIFIER: WO 2079138 A1

TITLE: A PROCESS FOR PREPARATION OF AN ESTER USING A POLYANILINE SALT AS CATALYST

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: EP 1462448 A1

L15: Entry 9 of 22

File: DWPI

Sep 29, 2004

DERWENT-ACC-NO: 2004-711160

DERWENT-WEEK: 200470

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TITLE: Preparation of substituted coumarins useful as intermediates in organic synthesis and in other chemical applications e.g. agrochemicals involves reacting phenol with keto ester in presence of catalyst comprising polyaniline salt

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 6716996 B1

L15: Entry 10 of 22

File: DWPI

Apr 6, 2004

DERWENT-ACC-NO: 2004-372815

DERWENT-WEEK: 200435

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TITLE: Preparation of substituted coumarin useful as fragrance, pharmaceutical and cosmetic comprises reacting phenol with keto ester in presence of polyaniline salt as catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 11 through 20 of 22 returned.

☐ 11. Document ID: GB 2381788 B, WO 200279138 A1, FR 2822823 A1, GB 2381788 A, AU 2001258721 A1

Using default format because multiple data bases are involved.

L15: Entry 11 of 22

File: DWPI

Oct 6, 2004

DERWENT-ACC-NO: 2003-029969

DERWENT-WEEK: 200466

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Preparation of ester used in making, e.g. coatings, involves direct esterification of aliphatic monocarboxylic acid with aliphatic monohydric alcohol in the presence of polyaniline salt catalyst

INVENTOR: MALLADI, S; SRINIVASAN, P

PRIORITY-DATA: 2001WO-IN00075 (March 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2381788 B	October 6, 2004		000	C07C067/08
WO 200279138 A1	October 10, 2002	E	012	C07C067/08
FR 2822823 A1	October 4, 2002		000	C07C069/24
GB 2381788 A	May 14, 2003		000	C07C067/08
AU 2001258721 A1	October 15, 2002		000	C07C067/08

INT-CL (IPC): [C07 C 67/03](#); [C07 C 67/08](#); [C07 C 69/24](#); [C08 G 73/02](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KWC	Draw D
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☐ 12. Document ID: US 6350896 B1

L15: Entry 12 of 22

File: DWPI

Feb 26, 2002

DERWENT-ACC-NO: 2002-360390

DERWENT-WEEK: 200239

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TITLE: Ester preparation comprises direct esterification of an aliphatic monocarboxylic acid with an aliphatic monohydric alcohol in the presence of a polyaniline salt catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KWC	Draw D
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☐ 13. Document ID: JP 08295830 A

L15: Entry 13 of 22

File: DWPI

Nov 12, 1996

DERWENT-ACC-NO: 1997-038120

DERWENT-WEEK: 199704

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Electrically conductive paint compsn. for electrical and electronic parts, etc. - contg. polymerisable epoxy! cpd., acid generating cpd., poly:aniline and (meth)acrylic! acid alkyl ester resin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draws
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☐ 14. Document ID: JP 08041322 A

L15: Entry 14 of 22

File: DWPI

Feb 13, 1996

DERWENT-ACC-NO: 1996-157253

DERWENT-WEEK: 199616

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TITLE: Organic polymer compsns. for conductive thin film for antistatic uses - contain polyaniline (deriv.) and sulpho:benzene deriv. or poly(sulpho:isophthalic acid ester) dopant

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draws
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☐ 15. Document ID: JP 07101016 A, JP 3235694 B2

L15: Entry 15 of 22

File: DWPI

Apr 18, 1995

DERWENT-ACC-NO: 1995-182620

DERWENT-WEEK: 200203

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TITLE: Layered polyester film with improved anti-charging property - by stacking poly aniline on surface of ester! film and stacking water resin including aniline gp. on surface of layered ester! film.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draws
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☐ 16. Document ID: JP 07020611 A, JP 3208693 B2, US 5453350 A

L15: Entry 16 of 22

File: DWPI

Jan 24, 1995

DERWENT-ACC-NO: 1995-094714

DERWENT-WEEK: 200156

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TITLE: Antistatic treated silver halide photographic material esp. for supports of

ester! film - comprises silver halide emulsion layer contg. fine particles of photo-insensitive conductor and/or semiconductor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. Desc.
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☐ 17. Document ID: JP 06243741 A

L15: Entry 17 of 22

File: DWPI

Sep 2, 1994

DERWENT-ACC-NO: 1994-319668

DERWENT-WEEK: 199440

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TITLE: Prodn. of conductive high polymer film for electrical insulator - by applying polymeric soln. on insulator, drying to form thin film, heating to dissociate acid ester, polymerising high polymer precursor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. Desc.
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☐ 18. Document ID: JP 05189751 A

L15: Entry 18 of 22

File: DWPI

Jul 30, 1993

DERWENT-ACC-NO: 1993-275586

DERWENT-WEEK: 199335

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TITLE: Magnetic recording medium - has magnetic and/or non-magnetic layer contg. poly:aniline or poly:thienyl alkane acid ester

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. Desc.
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☐ 19. Document ID: JP 05112638 A, JP 2982088 B2

L15: Entry 19 of 22

File: DWPI

May 7, 1993

DERWENT-ACC-NO: 1993-185256

DERWENT-WEEK: 200001

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TITLE: Organic solvent-soluble poly-aniline deriv. for films and coatings - obt'd. by reaction of poly-aniline with cyclic oxy:sulphonic acid ester to give N-substd. adduct

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. Desc.
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☐ 20. Document ID: US 4840858 A, JP 01163974 A, JP 2567644 B2

L15: Entry 20 of 22

File: DWPI

Jun 20, 1989

DERWENT-ACC-NO: 1989-227340

DERWENT-WEEK: 199706

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Secondary cell with conductive polymer positive electrode - has electrolyte with mixed solvent of butyrolactone and cyclic carbonate ester

Full	Title	Citation	Front	Review	Classification	Date	Reference	Screening	Abstracts	Claims	KMC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L14 and polyaniline	22

Display Format:

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[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

☐ [Generate Collection](#) [Print](#)

L15: Entry 4 of 22

File: USPT

Feb 26, 2002

DOCUMENT-IDENTIFIER: US 6350896 B1

TITLE: Process for preparation of an ester using a polyaniline salt as catalyst

Abstract Text (1):

The invention relates to a process for preparation of an ester using a polyaniline salt as catalyst.

Brief Summary Text (2):

The present invention relates to a process for the preparation of an ester using a polyaniline salt as the catalyst. The present invention more particularly relates to a process for producing aliphatic esters by the direct esterification of aliphatic mono carboxylic acids with aliphatic monohydric alcohols over polyaniline salts as catalysts.

Brief Summary Text (14):

The main object of the present is to provide a process for preparation of esters using polyaniline-salts as catalysts which obviates the drawbacks as detailed above.

Brief Summary Text (18):

Another object of the present invention is to produce aliphatic esters by the direct esterification of aliphatic mono carboxylic acids with aliphatic monohydric alcohols over polyaniline salts as catalysts.

Brief Summary Text (20):

Accordingly, the present invention relates to a process for preparation of an ester said process comprising direct esterification of an aliphatic mono carboxylic acid with an aliphatic mono hydric alcohol in presence of a polyaniline salt catalyst at a temperature in the range of 40 to 80.degree. C. for a time period in the range of 8 to 24 hrs. and separating the ester so obtained from the reaction mixture.

Brief Summary Text (24):

In yet another embodiment of the present invention, the polyaniline salt catalyst used is selected from polyaniline-sulfate, polyaniline-hydrochloride, polyaniline-nitrate, polyaniline-p-toluene sulfonate and polyaniline-phosphoric acid salt.

Detailed Description Text (3):

Three different methods were used to prepare polyaniline salts using three different oxidizing agents such as benzoyl peroxide, pyridinium chloro chromate and ammonium persulfate.

Detailed Description Text (4):

Method I: Preparation of polyaniline salts using benzoyl peroxide

Detailed Description Text (5):

In the polymerization process, 25 ml aqueous solution containing 1.44 g of sodium lauryl sulfate was added slowly while stirring to the solution of 150 ml dioxane containing 4.85 g benzoyl peroxide. In to this mixture, 30 ml aqueous solution containing 2.4 ml of aniline and 9 ml of concentrated sulfuric acid was added under constant stirring. The reaction mixture was stirred for 24 hrs at 30.degree. C. The

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 21 through 22 of 22 returned.

☐ 21. Document ID: JP 63012618 A

L15: Entry 21 of 22

File: DWPI

Jan 20, 1988

DERWENT-ACC-NO: 1988-058899

DERWENT-WEEK: 198809

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Unsatd. ester(s) - obtd. from aromatic poly-amine, epihalohydrin and (meth) acrylate unsatd. ester(s)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Settings	Attachments	Claims	KWIC	Draw D
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☐ 22. Document ID: US 3480588 A

L15: Entry 22 of 22

File: USOC

Nov 25, 1969

US-PAT-NO: 3480588

DOCUMENT-IDENTIFIER: US 3480588 A

TITLE: STABLE COATING COMPOSITION OF A TRICARBOXYLIC ACID OR ITS PARTIAL OR FULL ESTER AND A DIAMINE

DATE-ISSUED: November 25, 1969

INVENTOR-NAME: MARKHART ALBERT H; LAVIN EDWARD ; SANTER JAMES O

US-CL-CURRENT: 427/379, 528/128, 528/172, 528/188, 528/208, 528/229, 528/331, 528/350, 528/351, 528/352

Full	Title	Citation	Front	Review	Classification	Date	Reference	Settings	Attachments	Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L14 and polyaniline	22

Display Format:

=> s 103-26-4/prep
1485 103-26-4
3224013 PREP/RL
L4 316 103-26-4/PREP
(103-26-4 (L) PREP/RL)

=> s 103-26-4/proc
1485 103-26-4
3584163 PROC/RL
L5 60 103-26-4/PROC
(103-26-4 (L) PROC/RL)

=> s 14 or 15
L6 375 L4 OR L5

=> s 103-26-4/pur
1485 103-26-4
202224 PUR/RL
L7 10 103-26-4/PUR
(103-26-4 (L) PUR/RL)

=> s 16 or 17
L8 375 L6 OR L7

=> s 18 and 621-89-9 and 67-56-1

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L10 122444 L9

0 621-89-9
L11 0 L8 AND 621-89-9 AND L10

=> s 18 and cinnamic acid and methanol
17267 CINNAMIC
3900475 ACID
14561 CINNAMIC ACID
(CINNAMIC(W)ACID)
172776 METHANOL
L12 23 L8 AND CINNAMIC ACID AND METHANOL

=> s 112 and catalyst
673092 CATALYST
L13 19 L12 AND CATALYST

=> s 113 and polyaniline
11460 POLYANILINE
L14 2 L13 AND POLYANILINE

=> d 1-2 ibib abs hitstr

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:203581 CAPLUS
DOCUMENT NUMBER: 140:235501
TITLE: Esterification process for preparation of cinnamate
esters using **polyaniline** salts as catalysts
INVENTOR(S): Palaniappan, Srinivasan; Sairam, Malladi
PATENT ASSIGNEE(S): India

SOURCE: U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004049068	A1	20040311	US 2002-75933	20020213
PRIORITY APPLN. INFO.:			US 2002-75933	20020213

OTHER SOURCE(S): CASREACT 140:235501

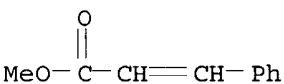
AB A process for preparation of cinnamate esters (e.g., Me cinnamate) using **polyaniline** salts as the esterification **catalyst** is described which comprises esterifying **cinnamic acid** directly with an aliphatic monohydric alc. (e.g., **methanol**) in the presence of a **polyaniline** salt (e.g., benzoyl peroxide-treated aniline-sulfuric acid **catalyst** system) as the **catalyst** at 30-80° for 4-24 h, removing the **catalyst** from the reaction mixture, and separating the desired ester by a conventional method.

IT 103-26-4P, Methyl cinnamate

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(esterification process for preparation of cinnamate esters using **polyaniline** salts as catalysts)

RN 103-26-4 CAPLUS

CN 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:421742 CAPLUS

DOCUMENT NUMBER: 139:350311

TITLE: Benzoyl peroxide oxidation route to **polyaniline** salt and its use as **catalyst** in the esterification reaction

AUTHOR(S): Sai Ram, Malladi; Palaniappan, Srinivasan

CORPORATE SOURCE: Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, 500007, India

SOURCE: Journal of Molecular Catalysis A: Chemical (2003), 201(1-2), 289-296

CODEN: JMCCF2; ISSN: 1381-1169

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:350311

AB Aniline was oxidized to **polyaniline** salt using benzoyl peroxide as an oxidizing agent in the presence of sulfuric acid and sodium lauryl sulfate surfactant. The polymer sample was characterized using IR, X-ray diffraction, particle size, resistance and d. measurements.

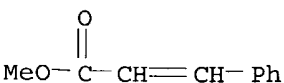
Polyaniline salt was used as **catalyst** for the esterification reaction of carboxylic acids with **methanol**. The process is being reported for the first time. Preparation of **catalyst**, recovery and reusability of the **catalyst** are found to be good.

IT 103-26-4P, Methyl cinnamate

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(benzoyl peroxide oxidation route to **polyaniline** salt and use as esterification reaction **catalyst**)

RN 103-26-4 CAPLUS

CN 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

> d his

(FILE 'HOME' ENTERED AT 14:59:50 ON 17 NOV 2004)

FILE 'CAPLUS' ENTERED AT 15:00:15 ON 17 NOV 2004
S METHYL CINNAMATE/CN

FILE 'REGISTRY' ENTERED AT 15:00:37 ON 17 NOV 2004
1 S METHYL CINNAMATE/CN

FILE 'CAPLUS' ENTERED AT 15:00:37 ON 17 NOV 2004
1485 S L1

FILE 'REGISTRY' ENTERED AT 15:00:49 ON 17 NOV 2004
1 S METHYL CINNAMATE/CN

FILE 'CAPLUS' ENTERED AT 15:01:17 ON 17 NOV 2004
316 S 103-26-4/PREP
60 S 103-26-4/PROC
375 S L4 OR L5
10 S 103-26-4/PUR
375 S L6 OR L7
S L8 AND 621-89-9 AND 67-56-1/REG#

FILE 'REGISTRY' ENTERED AT 15:03:01 ON 17 NOV 2004
1 S 67-56-1/RN

FILE 'CAPLUS' ENTERED AT 15:03:01 ON 17 NOV 2004
122444 S L9
0 S L8 AND 621-89-9 AND L10
23 S L8 AND CINNAMIC ACID AND METHANOL
19 S L12 AND CATALYST
2 S L13 AND POLYANILINE

=> s l13 and py<2002
21584404 PY<2002
11 L13 AND PY<2002

=> d 1-11 ibib abs hitstr

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:596285 CAPLUS

DOCUMENT NUMBER: 136:279170

TITLE: Catalytic synthesis of cinnamate with ammonium ferric
sulfate

AUTHOR(S): Wen, Rui-ming; Luo, Xin-xiang; Yu, Shan-xin; Zhang,
Lu-xi

CORPORATE SOURCE: Department of Chemistry, Yiyang Teachers College,
Yiyang, 413049, Peop. Rep. China

SOURCE: Hecheng Huaxue (2001), 9(3), 269-271
CODEN: HEHUE2; ISSN: 1005-1511

PUBLISHER: Hecheng Huaxue Bianjibu

DOCUMENT TYPE: Journal
LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 136:279170

AB The Me cinnamate, Et cinnamate, Pr cinnamate, Bu cinnamate, iso-Bu
cinnamate, n-amyl cinnamate and isoamyl cinnamate were synthesized by
esterification of **cinnamic acid** and various alcs. in
the presence of ammonium ferric sulfate dodecahydrate **catalyst**.
The properties of the cinnamates, such as b.p. (or m.p.), elementary
component, refractive index and IR spectroscopy were measured.

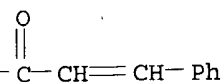
IT 103-26-4P, Methyl cinnamate

RL: SPN (Synthetic preparation); PREP (Preparation)

(catalytic synthesis of cinnamate esters with ammonium ferric sulfate)

RN 103-26-4 CAPLUS

2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



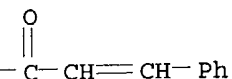
ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
SESSION NUMBER: 2001:560411 CAPLUS
JOURNAL NUMBER: 135:344257
TITLE: An improved method for the esterification of aromatic acids with ethanol and **methanol**
AUTHOR(S): Xu, Qi-Hai; Liu, Wan-Yi; Chen, Bao-Hua; Ma, Yong-Xiang
INSTITUTIONAL SOURCE: National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, 730000, Peop. Rep. China
JOURNAL: Synthetic Communications (2001), 31(14), 2113-2117
CODEN: SYNCAV; ISSN: 0039-7911
PUBLISHER: Marcel Dekker, Inc.
JOURNAL TYPE: Journal
LANGUAGE: English
CAS SOURCE(S): CASREACT 135:344257
A mixed **catalyst** Fe₂(SO₄)₃·xH₂O/concentrated H₂SO₄ was used to catalyze the esterification of aromatic acids with EtOH and MeOH. This **catalyst** system is effective for the rapid reactions and the esterification yields are excellent. Thus, among 17 products, 97% Et benzoate, 96% Me p-toluate, 99% Me o-anisate, 95% Et 3,5-dinitrobenzoate, and 99% Me cinnamate were prepared
103-26-4P, Methyl cinnamate
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(iron sulfate-sulfuric acid catalysts for esterification of aromatic acids with ethanol and **methanol**)
103-26-4 CAPLUS
2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



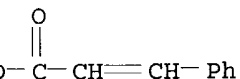
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
SESSION NUMBER: 2001:298726 CAPLUS
JOURNAL NUMBER: 135:258821
TITLE: Catalytic synthesis of methyl cinnamate with poly(vinyl chloride)- ferric chloride resin
AUTHOR(S): Liu, Wenqi; Yu, Shanxin
INSTITUTIONAL SOURCE: Department of Chemistry, Chenzhou Teacher's College, Chenzhou, 423000, Peop. Rep. China
JOURNAL: Guangzhou Huaxue (2000), 25(4), 26-29
CODEN: GAHUFW; ISSN: 1009-220X
PUBLISHER: Zhongguo Kexueyuan Guangzhou Huaxue Yanjiusuo
JOURNAL TYPE: Journal
LANGUAGE: Chinese
The Me cinnamate was synthesis by the esterification of **cinnamic acid** and Me alc. in presence of polyvinyl chloride - ferric chloride **catalyst**. Thus a mixture of 0.02 mol of **cinnamic acid**, 0.10 mol of Me alc. and 1.5 g of **catalyst** were heated for 7 h at refluxing temperature, the yield was 84.4%.
103-26-4P, Methylcinnamate
RL: PRP (Properties); SPN (Synthetic preparation); **PREP (Preparation)**
(synthesis of Me cinnamate catalyzed by poly(vinyl chloride)- ferric chloride resin)

103-26-4 CAPLUS
2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)

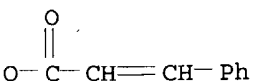


ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
SESSION NUMBER: 1997:370851 CAPLUS
DOCUMENT NUMBER: 127:108693
TITLE: Selective esterification of aliphatic nonconjugated carboxylic acids in the presence of aromatic or conjugated carboxylic acids catalyzed by NiCl₂.6H₂O
AUTHOR(S): Ram, Ram N.; Charles, I.
CORPORATE SOURCE: Department of Chemistry, Indian Institute of Technology, New Delhi, 110016, India
JOURNAL: Tetrahedron (1997), 53(21), 7335-7340
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
EXTRINSIC SOURCE(S): CASREACT 127:108693
Unhindered aliphatic nonconjugated carboxylic acids were esterified selectively in the presence of aromatic or conjugated acids on heating in the corresponding alc. solns. at reflux for 3-13 h with 10 mol% of NiCl₂.6H₂O catalyst.
103-26-4P, Methyl cinnamate
RL: SPN (Synthetic preparation); PREP (Preparation)
(selective esterification of aliphatic nonconjugated carboxylic acids in presence of aromatic or conjugated carboxylic acids catalyzed by NiCl₂.6H₂O)
103-26-4 CAPLUS
2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

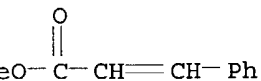
ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
SESSION NUMBER: 1994:408821 CAPLUS
DOCUMENT NUMBER: 121:8821
TITLE: Synthesis of methyl cinnamate with strong acidic cationic exchange resin as catalyst
AUTHOR(S): Jin, Tongshou; Wang, Hongkai; Wang, Zhendong
CORPORATE SOURCE: Dep. Chem., Hebei Univ., Peop. Rep. China
JOURNAL: Hebei Daxue Xuebao, Ziran Kexueban (1992), 12(1), 76-80
CODEN: HDXKEB; ISSN: 1000-1565
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
EXTRINSIC SOURCE(S): CASREACT 121:8821
Refluxing cinnamic acid with MeOH in the presence of strong acidic cationic exchange resin for 6 h gave 95.1% Me cinnamate.
103-26-4P, Methyl cinnamate
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, esterification catalyst for)
103-26-4 CAPLUS
2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
 CESSION NUMBER: 1992:570984 CAPLUS
 CUMENT NUMBER: 117:170984
 TLE: Preparation of **cinnamic acid**
 esters
 VENTOR(S): Takagi, Usaji; Yamamoto, Yoshihiro; Inoue, Yoshitaka;
 Hara, Retsu; Aoki, Shinobu
 TENT ASSIGNEE(S): Mitsui Toatsu Kagaku K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 OCUMENT TYPE: Patent
 ANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 TENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04077455	A2	19920311	JP 1990-187886	19900718 <--
JP 2880772	B2	19990412		
PRIORITY APPLN. INFO.:			JP 1990-187886	19900718

OTHER SOURCE(S): CASREACT 117:170984
 B The title compds. are prepared by treating styrenes, CO, alcs., and O in the
 presence of Pd or Pd compound and $\text{MnCu}_2\text{Cl}_2(\text{OAc})_4 \cdot n$ ($n > 0$) or their
 hydrates. A mixture of styrene, MeOH, PdCl_2 , and $[\text{MnCu}_2\text{Cl}_2(\text{OAc})_4] \cdot n.4n\text{H}_2\text{O}$
 was treated with a mixture of CO, O and CO_2 at 100° and 8.5 atm for 6
 h to give Me cinnamate in 53.6% yield at 72.4% I conversion.
 T **103-26-4P**
 RL: SPN (Synthetic preparation); **PREP (Preparation)**
 (preparation of, by alkoxycarbonylation of styrene, catalysts for)
 N 103-26-4 CAPLUS
 N 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)

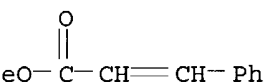


15 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
 CESSION NUMBER: 1991:679601 CAPLUS
 OCUMENT NUMBER: 115:279601
 ITLE: One-pot method for preparation of **cinnamic**
acid esters from 1,1,1,3-tetrachloro-3-
 phenylpropane
 VENTOR(S): Hajek, Milan; Cermak, Jan; Silhavy, Premysl
 TENT ASSIGNEE(S): Czech.
 SOURCE: Czech., 4 pp. Addn. to Czech. 241,246.
 CODEN: CZXXA9
 OCUMENT TYPE: Patent
 ANGUAGE: Czech
 FAMILY ACC. NUM. COUNT: 2
 TENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 266159	B3	19891213	CS 1986-7065	19861001 <--
CS 241246	B1	19860313	CS 1984-5410	19840712 <--
DD 255046	A3	19880323	DD 1985-277695	19850625 <--
SU 1348334	A1	19871030	SU 1985-7773897	19850703 <--
CH 665630	A	19880531	CH 1985-2883	19850704 <--
NL 8501954	A	19860203	NL 1985-1954	19850708 <--
JP 61069741	A2	19860410	JP 1985-152568	19850712 <--

US 4806681 A 19890221 US 1987-58610 19870604 <--
PRIORITY APPLN. INFO.: CS 1984-5410 19840712
US 1985-752975 19850708

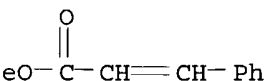
OTHER SOURCE(S): MARPAT 115:279601
B PhCH:CHCO₂R (I; R = C1-8 alkyl, C1-3 alkylphenyl, alkenylphenyl), useful
as components of perfume compns., were prepared by the title method
comprising hydrolysis of 1,1,1,3-tetrachloro-3-phenylpropane (II) by AcOH
in the presence of an acid **catalyst**, e.g., H₂SO₄, p-MeC₆H₄SO₃H,
or a cation exchange resin (Czech. CS 241246) and subsequent
esterification of the product **cinnamic acid** with an
alc. in the presence of the same **catalyst**. The excess AcOH was
advantageously removed before the esterification step in order to avoid
formation of acetate ester byproducts. Thus, a mixture of II 0.3, AcOH 1.5,
and H₂SO₄ 0.09 mol was refluxed for 5 h with addition of 0.6 mol H₂O. When
HCl(g) evolution ceased, AcOH was removed in vacuo, 1.2 mol EtOH in 60 mL
C₆H₆ was added to the residue, and the mixture refluxed for 1 h with removal
of H₂O-C₆H₆ azeotrope to give 92.7% I (R = Et). Eight I were prepared in
61.8-94.5% yields.
T 103-26-4P, Methyl cinnamate
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of, method for)
N 103-26-4 CAPLUS
N 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



15 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:578618 CAPLUS
DOCUMENT NUMBER: 107:178618
TITLE: Recycling of catalysts
INVENTOR(S): Yamamoto, Yoshihiro; Aoki, Shinobu; Takagi, Usaji
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62081350	A2	19870414	JP 1985-219034	19851003 <--
PRIORITY APPLN. INFO.:			JP 1985-219034	19851003

B **Cinnamic acid** esters useful as starting materials for
perfumes, agrochems., and photosensitive polymers are prepared from styrene,
CO, alcs., and O in the presence of catalysts containing Pd compds. and Cu
compds., and the catalysts are separated as solids from the reaction mixts.,
oxidized in the presence of inorg. anions, and used repeatedly. Me
cinnamate was prepared using Pd chloride and CuCl₂ as the **catalyst**
, which was recovered for Pd 78, Cu 92, and Cl 98%.
T 103-26-4P, Methyl cinnamate
RL: **PREP (Preparation)**
(manufacture of, catalysts for, recovery and recycle of)
N 103-26-4 CAPLUS
N 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



15 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:109252 CAPLUS
DOCUMENT NUMBER: 104:109252
TITLE: **Cinnamic acid esters**
INVENTOR(S): Wada, Hirosuke; Kobayashi, Yoshimitsu; Kasori, Yukio
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60231630	A2	19851118	JP 1984-87241	19840428 <--
JP 05020421	B4	19930319		

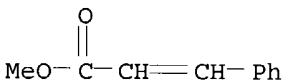
PRIORITY APPLN. INFO.: JP 1984-87241 19840428
OTHER SOURCE(S): CASREACT 104:109252

AB A **cinnamic acid** ester was prepared by the reaction of a styrene, and aliphatic alc., CO, and O in the presence of Pd or its compound while removing the aliphatic alc. and at least part of H₂O from the reaction mixture and recovering the Pd or its compound through adsorption on a carbonaceous carrier and filtration. Thus, 2% Pd/C (0.5 mmol as Pd), 20.0 mmol Cu(OAc)₂, 20.0 mmol BaCl₂, 70 mL styrene, and 30 mL MeOH were placed in an autoclave, a 85.5:5.2:9.3 (volume) mixture of N, O, and CO was passed through the autoclave 5 h at 120° and 20 g/cm² gage to give the filtrate containing 1.1 ppm Pd, 1152 ppm Cu, 67 ppm Cl⁻, and 184.9 mmol Me cinnamate.

IT **103-26-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of, from styrene)

RN 103-26-4 CAPLUS

CN 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

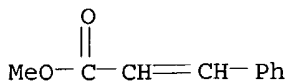
ACCESSION NUMBER: 1986:109247 CAPLUS
DOCUMENT NUMBER: 104:109247
TITLE: **Cinnamic acids esters**
INVENTOR(S): Wada, Hirosuke; Kobayashi, Yoshimitsu; Kasori, Yukio
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60169441	A2	19850902	JP 1984-23836	19840210 <--
JP 04052256	B4	19920821		

PRIORITY APPLN. INFO.: JP 1984-23836 19840210

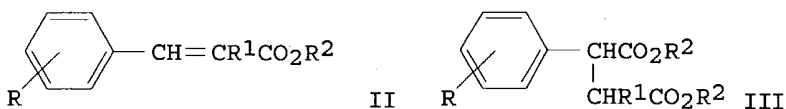
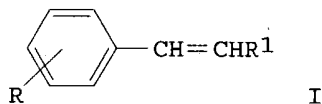
AB A **catalyst** composed of (1) Pd or its compds., (2) Cu or Fe salt, and (3) alkali or alkaline earth metal salt, such as halide, and useful for preparation of **cinnamic acid** esters from styrene, Cl-4 aliphatic alcs., CO, and O was separated after the reaction and heated with an organic acid to regenerate catalytic activity. Thus, a **catalyst** composed of Pd, Cu(OAc)₂, and BaCl₂ was used to prepare Me cinnamate (I) at 73.7% selectivity from styrene, MeOH, and a gaseous mixture of N, O, and CO, separated by filtration, dried, immersed in AcOH, heated 1 h at 125°, and used again to prepare I at 77.54% selectivity vs. 25.90% without AcOH treatment.

IT 103-26-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, from styrene, MeOH, CO, and O)
 RN 103-26-4 CAPLUS
 CN 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1981:586892 CAPLUS
 DOCUMENT NUMBER: 95:186892
 TITLE: Cinnamic acid esters
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56071039	A2	19810613	JP 1979-146264	19791112 <--
JP 63023984	B4	19880518		
PRIORITY APPLN. INFO.: GI			JP 1979-146264	19791112



AB Styrenes I (R = H, halo, alkyl, alkoxy; R¹ = H, alkyl) were alkoxy-carbonylated by treating with alcs. R²OH (R² = alkyl), CO and O in the presence of Pd and metal halides to give cinnamates II. Thus, 87.5 mmol styrene was heated with MeOH, PdCl₂, CuCl₂, LiCl, HC(OMe)₃, CO (20 kg/cm²) and 6:94 O₂-N₂ mixture (95 kg/cm²) 2.5 h at 120° to give 46 mmol PhCH:CHCO₂Me and 16 mmol III (R = R¹ = H, R² = Me).

IT 103-26-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, by alkoxy-carbonylation of styrene with methanol and carbon monoxide)
 RN 103-26-4 CAPLUS
 CN 2-Propenoic acid, 3-phenyl-, methyl ester (9CI) (CA INDEX NAME)

